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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 1 of 1

Complete if Known

Application Number	10/058,121
Filing Date	01/23/2002
First Named Inventor	Wellingtonhoff et al.
Art Unit	1623
Examiner Name	Killos, P
Attorney Docket Number	SWRI-2835-04

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
M		US- 5,024,850	06-18-1991	Broer , et al.	
		US- 5,989,461	11-23-1999	Coates , et al.	
M		US- 6,117,920	09-12-2000	Jolliffe , et al.	
		US- 6,144,428	11-07-2000	Schadt , et al.	
I		US- 6,217,792	04-17-2001	Parri , et al.	
		US- 6,217,955	04-17-2001	Coates , et al.	
M		US- 6,291,035	09-18-2001	Verrall , et al.	
		US- 6,414,092	07-02-2002	Coates , et al.	
		US- 6,649,230	11-18-2003	Seiberle , et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁵
		Country Code ² -Number ³ -Kind Code ⁴ (if known)	MM-DD-YYYY			

Examiner Signature	<i>Killos</i>	Date Considered	07/04
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First Named Inventor

Wellinghoff et al.

Group Art Unit

1623

Examiner Name

Not Yet Assigned

Attorney Docket Number

SWRI-2835-04

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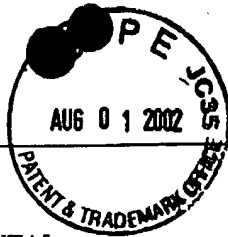
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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**SUPPLEMENTAL
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 ATTY. DOCKET NO.
SWRI-2835(Z)-04

 SERIAL NO.
10/056,121

APPLICANT

Wellinghoff et al.

 FILING DATE
01/23/2002

 GROUP
1711

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>[Signature]</i>	AA	5,622,648	04/22/1997	Parri et al.	<i>Z</i>		
<i>[Signature]</i>	AB	6,031,015	02/29/2000	Ritter, et al.			
<i>[Signature]</i>	AC	6,258,974	07/10/2001	Wellinghoff et al.			
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AK							
	AL							
	AM							

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

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SWRI-2385-Z

SERIAL NO.

10/056,121

APPLICANT

Wellinghoff et al.

FILING DATE

01/23/2002

GROUP

1623

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AK	AA	RE. 32,073	01/28/1986	Randklev	-	-	
AK	AB	4,215,033	07/29/1980	Bowen	-	-	
AK	AC	4,539,048	09/03/1985	Cohen	-	-	
AK	AD	4,588,756	05/13/1986	Bowen	-	-	
AK	AE	4,623,738	11/18/1986	Sugerman et al.	-	-	
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AK	AG	4,663,147	05/05/1987	DePrince	-	-	
AK	AH	4,753,652	06/28/1988	Langer et al.	-	-	
AK	AI	4,964,911	10/23/1990	Ibsen et al.	-	-	
AK	AJ	4,978,640	12/18/1990	Kelly	-	-	

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		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AK	AK	2,181,507	01/19/1997	Canada	-	-		
AK	AL	EP 0159887 A2	30.10.85	EPO	-	-		
AK	AM	EP 1142863 A2	modified	EPO			X	

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

AK	AN	"Nanostructured Materials: A Technical-Market Analysis", Mincy N. Ritter, Business Communication Co., Inc., Fine, Ultrafine and Nano Powders '98"					
AK	AO	H. Schmidt et al., "Organically modified ceramics and their applications", Journal of Non-Crystalline Solids, 1990, 121, pp. 428-435					
AK	AP	Mark W. Ellsworth et al., "Mutually Interpenetrating Inorganic-Organic Networks. New Routes into Nonshrinking Sol-Gel Composite Materials", J. Am Chem. Soc., 1991, 113, 2756-2758					

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>AK</i>	BA	5,030,608	07/09/1991	Schubert et al.	—	—	
<i>AK</i>	BB	5,057,018	10/16/1991	Bowen	—	—	
<i>AK</i>	BC	5,064,877	11/12/1991	Nass et al.	—	—	
<i>AK</i>	BD	5,276,068	01/04/1994	Waknine	—	—	
<i>AK</i>	BE	5,308,886	05/03/1994	Masuhara et al.	—	—	
<i>AK</i>	BF	5,328,947	07/12/1994	Taguchi et al.	—	—	
<i>AK</i>	BG	5,334,625	08/02/1994	Ibsen et al.	—	—	
<i>AK</i>	BH	5,372,796	12/13/1994	Wellinghoff	—	—	
<i>AK</i>	BI	5,401,528	03/28/1995	Schmidt	—	—	
<i>AK</i>	BJ	5,472,797	12/05/1995	Yajima et al.	—	—	
<i>AK</i>	BK	5,486,548	01/23/1996	Podszun et al.	—	—	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>AK</i>	BL	EP 0754 675 A2		EPO				
<i>AK</i>	BM	JP H 5-178794	12/26/91	Japan	—	—	Best	
<i>AK</i>	BN	WO 92/16183	24.04.97	PCT	—	—	Yes	

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

<i>AK</i>	BO	Stephen Wellinghoff et al., "Tantalum oxide-polymer composites", The International Symposium on Advances in So.-Gel Process and Applications, Edited by Y.A. Attia, Plenum Press, pp 141-154, 1994.
<i>AK</i>	BP	Christine Landry et al., "In situ polymerization fo tetraethoxysilane in poly(methyl methacrylate): morphology and dynamic mechanical properties", POLYMER, 1992, Vol. 33, No. 7, pp. 1486-1495
<i>AK</i>	BQ	Michael J.S. Dewar et al., "Factors Influencing the Stabilities of Nematic Liquid Crystals", Jornal of American Chemical Society, 97:23, 6658-6666

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SWRI-2385-Z

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1623

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JK</i>	CA	5,502,087	03/26/1996	Tateosian et al.	/	/	
<i>I</i>	CB	5,556,931	09/17/1996	Imura et al.	/	/	
<i>I</i>	CC	5,663,214	09/02/1997	Okada	/	/	
<i>JK</i>	CD	5,670,583	09/23/1997	Wellinghoff	/	/	
<i>I</i>	CE	5,695,681	12/09/1997	Siemensmeyer et al.	/	/	
<i>I</i>	CF	5,720,805	02/24/1998	Wellinghoff et al.	/	/	
<i>JK</i>	CG	5,730,601	03/24/1998	Bowman et al.	/	/	
<i>I</i>	CH	5,804,097	09/08/1998	Delavier et al.	/	/	
<i>I</i>	CI	5,833,880	11/10/1998	Siemensmeyer et al.	/	/	
<i>JK</i>	CJ	5,834,532	11/10/1998	Yamamoto et al.	/	/	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>JK</i>	CK	WO 97/14674	24.04.97	PCT	/	/		
<i>JK</i>	CL	WO 98/23580	04.06.98	PCT	/	/		
<i>JK</i>	CM	WO 99/17716	15.04.99	PCT	/	/		

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<i>JK</i>	CN	Wolfgang Wedler et al., "Vitrification in Low-molecular-weight mesogenic Compounds", J. Mater. Chem., 1991, 1(3), 347-356
<i>JK</i>	CO	Sukmin Lee et al., "Phase Behavior of Liquid Crystalline Polymer/Model Compound Mixtures: Theory and Equipment", Macromolecules, Vol. 27, No 14, 1994, 3955-3962
<i>JK</i>	CP	R.A.M. Hikmet et al., "Effect of the Orientation of the Ester Bonds on the Properties of Three Isomeric Liquid Crystal Diacrylates Before and After Polymerization", Macromolecules, Vol: 28, No. 9, 1995, 3313-3327

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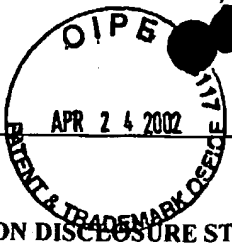
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MT	DA	5,852,248	12/22/1998	Chadwick	/	/	
	DB	5,859,089	01/12/1999	Qian	/	/	
	DC	5,865,623	02/02/1999	Suh	/	/	
MT	DD	5,886,064	03/23/1999	Rheinberger et al.	/	/	
	DE	5,897,885	04/27/1999	Petticrew	/	/	
	DF	5,910,273	06/08/1999	Thiel et al.	/	/	
MT	DG	5,991,991	06/15/1999	Keller et al.	/	/	
	DH	5,995,514	09/21/1999	Huang et al.	/	/	
	DI	5,998,499	12/07/1999	Klee et al.	/	/	
MT	DJ	6,220,404	02/08/2000	Ettlinger et al.	/	/	

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		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
MT	DK	WO 98/13008	02/04/98	PCT	/	/		
MT	DL	WO 94/24052	27.10.94	PCT	/	/		
	DM							

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MT	DN	Y. Wei et al., "Synthesis of New Organic-Inorganic Hybrid Glasses"; Chem. Mater. 2(4), 337 (1990)
MT	DO	Manabu Node et al. "Hard Acid and Soft Nucleophile System. 2." Demethylation of Methyl Ethers of Alcohol and Phenol with an Aluminum Halide-Thiol System", J. Org. Chem. 1980, 45, 4275-4277 (1980 American Chemical Society)
MT	DP	Glancarto Galli et al., "Thermotropic poly(ester- β -sulfide)s", Polymer Bulletin 21, 563-569 (1989)

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AK	EA	6,027,816	02/22/2000	Ono et al.	/	/	
I	EB	6,031,015	02/29/2000	Ritter et al.	/	/	
	EC	6,087,816	07/11/2000	Volk	/	/	
AK	ED	6,335,462	01/01/2002	Etzbach et al.	/	/	
	EE						
	EF						
	EG						
	EH						
	EI						
	EJ						

FOREIGN PATENT DOCUMENTS

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							YES	NO
	EK							
	EL							
	EM							

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

	EN	"Titanium Tin Oxide Nanoparticles for Sunscreen Applications" <i>no date</i>
	EO	
	EP	

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		Examiner Name	Not Yet Assigned
		Attorney Docket Number	SWRI-2835-04

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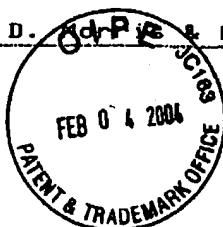
U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 6.060.042	05-09-2000	SCHUHMACHER	
		US- 6.136.225	10-24-2000	MEYER	
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		Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)				
		GB 2297549	08-07-1996	COATES, et al.		

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